

	Comprehensive Plan Cost Table Version 16 Costs through August 31, 2017	UAO COST ESTIMATE JULY 2012-R16	EXPENDED TO DATE POST SETTLEMENT 08/31/2017-R16	COST TO COMPLETE REMAINING 2017-2021-R16	TOTAL COST AT COMPLETION IN 5 YEARS -R15	TOTAL COST AT COMPLETION IN 5 YEARS-R16 (optimistic)	TOTAL COST AT COMPLETION IN 5 YEARS-R16	TOTAL COST AT COMPLETION WITH CONTINGENCIES R15	TOTAL COST AT COMPLETION WITH CONTINGENCIES R16	% Contingency	Cost to complete with contingency (Remaining)	Volume to be Removed (cu. yds)	Variance in Voume	Cost/CY	NOTES
					Project Complete in 5 Years										
1	MassDEP Funding		\$ 600,000	\$ 1,000,000	\$ 1,600,000	\$ 1,600,000	\$ 1,600,000	\$ 1,600,000	\$ 1,600,000	0%	\$ 1,000,000				2014-2021 - ETD for 3 years - Needs verification from 3/9/17 meeting - based on EPA comment
2	USACE Funding		\$ 3,900,000	\$ 8,300,000	\$ 12,200,000	\$ 12,200,000	\$ 12,200,000	\$ 13,420,000	\$ 13,420,000	10%	\$ 9,130,000				Per Corps - \$3.9M (2014-2016), 2.5M (2017-2018) \$1.1M/yr (2019 - 2021)
3	Pro-Serv Contract (WQM/Monit)		\$ 7,500,000	\$ 12,500,000	\$ 20,000,000	\$ 25,000,000	\$ 25,000,000	\$ 22,000,000	\$ 27,500,000	10%	\$ 13,750,000				assumes \$2.5M/yr - cost provided by Corps increase costs by 5M to account for additiona sampling requirements in inter and subtidal areas
4															
5	Jacobs Fixed Costs	\$ 54,927,518									\$ -				Jacobs Fixed Costs.
6	Project Management and Admin		\$ 16,834,619	\$ 27,730,397.75	\$ 38,888,899	\$ 44,565,017	\$ 44,565,017	\$ 42,777,789	\$ 49,021,518	10%	\$ 30,503,438				Costs are for 4.5 years - Based upon TO#2 Job Change 0004 proposal - Contingency covers labor escalation
7	Facility Management		\$ 2,895,736	\$ 2,652,288	\$ 6,784,626	\$ 5,548,024	\$ 5,548,024	\$ 7,463,089	\$ 6,102,826	10%	\$ 2,917,517				Costs are for 4.5 years - Based upon TO#2 Job Change 0004 proposal
8	Air Monitoring		\$ 1,080,492	\$ 1,389,204	\$ 2,461,763	\$ 2,469,697	\$ 2,469,697	\$ 2,707,939	\$ 2,716,667	10%	\$ 1,528,125				Air Monitoring for 2017 is funded.
9	Full Demob	\$ 7,977,325	\$ -	\$ 5,785,460	\$ 5,785,460	\$ 5,785,460	\$ 5,785,460	\$ 7,810,370	\$ 7,810,370	35%	\$ 7,810,370				CTC from May 2016 Jacobs proposal. Contingency based upon undefined future status and necessary improvement of Areas C and D.
10	Intertidal	\$ 78,400,763									\$ -				
11	UH Intertidal		\$ -	\$ 54,492,243	\$ 57,621,620	\$ 43,593,794	\$ 54,492,243	\$ 69,145,945	\$ 65,390,691	20%	\$ 65,390,691				Assume work start in 3/18 and is fully funded and east and west sides done simultaneously, totaled using below two items.
12	Eastern shoreline			\$ 40,516,465							\$ 32,425	32,425		1,250	Costs based upon engineers estimate \$1284.50/yd, inc excavation, restoration, T&D -based on Generic Work Plan
13	Western Shoreline			\$ 13,975,778							\$ 12,281	12,281		1,138	Costs based upon engineers estimate \$1138/yd, incl excavation, restoration, T&D - revised based on Generic Work Plan
14	Parcel 265		\$ 2,229,750	\$ -	\$ 2,229,750	\$ 2,229,750	\$ 2,229,750	\$ 2,229,750	\$ 2,229,750	0%	\$ -				Not included in UAO estimate
15	PMC		\$ 6,886,700	\$ 438,360	\$ 7,325,060	\$ 7,325,060	\$ 7,325,060	\$ 7,691,313	\$ 7,691,313	5%	\$ 460,278				UAO included this with intertidal volume. CTC includes SES, T&D, restoration, demob
16	NSSM			\$ 278,114	\$ 278,114	\$ 278,114	\$ 278,114	\$ 333,737	\$ 333,737	20%	\$ 333,737	230		1,209	Not Contracted. Assumes 230 cu yds from North Street property only
17	BiB		\$ -	\$ 918,985	\$ 918,985	\$ 918,985	\$ 918,985	\$ 1,010,884	\$ 1,010,884	10%	\$ 1,010,884	760		1,209	Not Contracted. Assumes 760 cubic yards @ \$878/yd
18	Marsh Island	\$ 3,380,452	\$ 720,012	\$ 1,562,208	\$ 2,282,220	\$ 1,562,208	\$ 1,562,208	\$ 2,510,442	\$ 1,718,429	10%	\$ 1,718,429				Work is contracted. Cost from RAC TO#3 negotiated proposal june 30 2017 - less management time
19	Aerovox										\$ -				
20	Aerovox Interim Cap		\$ -	\$ 4,800,000	\$ 4,800,000	\$ 4,800,000	\$ 4,800,000	\$ 6,240,000	\$ 6,240,000	30%	\$ 6,240,000				Not Contracted. Assumed 3 ft carbon sand cover (per Corps direction). Temporary solution does not complete final remedy.
21	Interim Cap LTM			\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000	\$ 900,000	\$ 900,000	20%	\$ 900,000				Not Contracted. Assumed annual benthic and sampling of cover and reporting. No replacement costs.
22											\$ -				
23	Dredge & Fill LHCC	\$ 39,838,604				\$ -	\$ -		\$ -	0%	\$ -				
24	Construct CAD Cell		\$ 9,563,000	\$ -	\$ 9,563,000	\$ 9,563,000	\$ 9,563,000	\$ 9,563,000	\$ 9,563,000	0%	\$ -				Complete - UAO costs for all work related to CAD Cell, less the \$11.3M from EPA HQ (need to verify if paid back)
25	Dredge and Fill LHCC - Jacobs		\$ 14,155,772		\$ 14,155,772	\$ 14,155,772	\$ 14,155,772	\$ 14,155,772	\$ 14,155,772	0%	\$ -				complete
26	Pre-BV - UH & LH to LHCC Mechanical - Jacobs		\$ 4,663,907	\$ 462,280	\$ 5,126,187	\$ 5,126,187	\$ 5,126,187	\$ 5,126,187	\$ 5,126,187	0%	\$ 462,280				Work is complete, pending final invoicing. UH and LH Mech dredge - MU 25, 28, silt curtains, Moby Dick.
27	Post BV - UH & LH to LHCC Mechanical - BV (37 C&D)			\$ 542,190	\$ 1,060,000	\$ 542,190	\$ 542,190	\$ 1,166,000	\$ 596,409	10%	\$ 596,409	5,300		102	One plant 120 days (37C&D), includes current Jacobs costs
28	Dredge and Fill LHCC - BV		\$ -	\$ 14,915,983	\$ 14,915,983	\$ 14,915,983	\$ 14,915,983	\$ 14,915,983	\$ 14,915,983	0%	\$ 14,915,983				Per USACE Email (3/16/17) changed from \$18M to \$17M. Fixed Cost Contract estimate
29	Survey Contract - BV		\$ -	\$ 700,000	\$ 700,000	\$ 568,500	\$ 568,500	\$ 700,000	\$ 653,775	15%	\$ 700,000				Per USACE. Based on award to Bryant and adding BiB and MU37C&D
30	Between the Bridges Subtidal - BV		\$ -	\$ 1,316,355	\$ 2,573,520	\$ 1,316,355	\$ 1,316,355	\$ 2,830,872	\$ 1,447,991	10%	\$ 1,447,991	12,868		102	Negotated and Awarded, added fee in Rev9
31	Dredge Cleanup Passes - BV			\$ -	\$ 3,380,000	\$ -	\$ -	\$ 3,718,000	\$ -	10%	\$ -	0			Adjusted to 0 - Per USACE based on BV contract volumes
32	Hydraulic Dredging	\$ 154,456,091	\$ 51,365,786	\$ -	\$ 51,365,786	\$ 51,365,786	\$ 51,365,786	\$ 51,365,786	\$ 51,365,786	0%	\$ -				2014 through 2016 dredging less \$12M, PMC, Parcel 265, and fixed costs
33	Temporary Pipeline Relo		\$ 582,123	\$ 653,536	\$ 1,235,659	\$ 1,235,659	\$ 1,235,659	\$ 1,235,659	\$ 1,235,659	0%	\$ 653,536				Negotated and Awarded
34	Capping DDA		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	20%	\$ -				#DIV/0!
35	Sand Cover		\$ -	\$ 2,925,000	\$ 2,925,000	\$ 2,925,000	\$ 2,925,000	\$ 3,217,500	\$ 3,217,500	10%	\$ 3,217,500				Capping of DDA cost estimated from ESD 4
36	Maintenance of Salt Marsh Restoration			\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 550,000	\$ 550,000	10%	\$ 550,000				This is an assumed volume of 100,000 cy, mechanical placement - ASSUMES ONLY 25% COVER USED - ORIGINALLY \$11.7 AND 12.87 W/C
37	LHCC O&M	\$ 580,163	\$ -	\$ 689,052	\$ 689,052	\$ 689,052	\$ 689,052	\$ 723,504	\$ 723,504	5%	\$ 723,504				Year 1 after restoration and Year 5 - Not previously included.
38	Seafood Monitoring	\$ 721,387	\$ -	\$ 579,290	\$ 579,290	\$ 579,290	\$ 579,290	\$ 579,290	\$ 579,290	0%	\$ 579,290				Cost to Complete is escalated UAO cost (3.5%)
39	Site Wide Benthic LTM	\$ 818,703	\$ 536,021	\$ 550,000	\$ 1,086,021	\$ 1,086,021	\$ 1,086,021	\$ 1,140,322	\$ 1,140,322	5%	\$ 577,500				Costs from MassDEP
40	Cost to Complete is escalated UAO cost (3.5%), assume 1/5yr														
41	HYBRID DREDGE														
42	Cable Crossing		\$ 188,291	\$ 25,557,924	\$ 25,746,215	\$ 25,746,215	\$ 25,746,215	\$ 28,320,837	\$ 28,320,837	10%	\$ 28,320,837		50%		Based on initial proposal for TO#4 (55,000 yds), revised - see subtidal back up - includes Mob/winterization-already funded
43	Area O			\$ 15,093,352	\$ 15,093,352	\$ 15,093,352	\$ 15,093,352	\$ 16,602,687	\$ 16,602,687	10%	\$ 16,602,687	29,361		514	Includes 4 inches overdredge (29360.5 yds, avg conc of removed material is 266.5 ppm)
44	Area N			\$ 7,198,882	\$ 7,198,882	\$ 7,198,882	\$ 7,198,882	\$ 7,918,770	\$ 7,918,770	10%	\$ 7,918,770	14,004		514	Includes 4 inches overdredge (14003.7 yds, avg conc of removed material is 113.3 ppm)
45	Area H			\$ 8,697,550	\$ 8,697,550	\$ 8,697,550	\$ 8,697,550	\$ 9,567,305	\$ 9,567,305	10%	\$ 9,567,305	16,919		514	Includes 4 inches overdredge (16919 yds, avg conc of removed material is 187.2 ppm)
46	Area I			\$ 3,581,988	\$ 3,581,988	\$ 3,581,988.35	\$ 3,581,988	\$ 3,940,187	\$ 3,940,187	10%	\$ 3,940,187	6,968		514	Includes 4 inches overdredge (6967.9 yds, avg conc of removed material is 75.1 ppm) Max conc exceed 700 ppm in some samples
47															